What Is Claimed Is:

1. A method for joining a precious-metal section to an electrode of a spark plug, comprising:

positioning the precious-metal section on the electrode; and

applying a laser beam at least to the precious-metal section positioned on the electrode, wherein the precious-metal section is joined to the electrode by heat input generated by the laser beam, and wherein the laser beam at least substantially covers the precious-metal section.

- 2. The method as recited in claim 1, wherein no relative movement occurs between the laser beam and the precious-metal section during the application of the laser beam.
- 3. The method as recited in claim 2, wherein an intensity of a first portion of the laser beam applied to a first region of the precious-metal section is higher than an intensity of a second portion of the laser beam applied to a second region of the precious-metal section.
- 4. The method as recited in claim 3, wherein at least the first region of the precious-metal section is fused with the electrode to form an alloy.
- 5. The method as recited in claim 4, wherein, following the application of the laser beam on the precious-metal section, the alloy contains a higher proportion of the material of the electrode in an area of the alloy corresponding to the first region of the precious-metal section than in an area of the alloy corresponding to the second region of the precious-metal section.
- 6. The method as recited in claim 3, wherein the

precious-metal section has an edge region and a center region, and wherein the intensity of the first portion of the laser beam applied to the edge region of the precious-metal section is greater than the intensity of the second portion of the laser beam applied to the center region of the precious-metal region.

- 7. The method as recited in claim 6, wherein the electrode contains nickel, and wherein the precious-metal section contains at least one of platinum, iridium, rhodium, ruthenium and palladium.
- 8. The method as recited in claim 3, wherein the precious-metal section is positioned at least partially in a recess provided in the electrode.
- 9. The method as recited in claim 8, wherein the spark plug includes a center electrode and at least one ground electrode, the ground electrode being joined to the precious-metal section, the center electrode being electrically insulated from a housing of the spark plug by an insulator, and the ground electrode being affixed to the housing.
- 10. The method as recited in claim 8, wherein the spark plug includes a center electrode and at least one ground electrode, the center electrode being joined to the precious-metal section, the center electrode being electrically insulated from a housing of the spark plug by an insulator, and the ground electrode being affixed to the housing.
- 11. The method as recited in claim 3, wherein the laser beam is applied continuously.
- 12. The method as recited in claim 3, wherein the precious-metal section contains at least one of a pure

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precious metal, a precious-metal alloy and an alloy containing a precious metal.

13. The method as recited in claim 3, wherein the laser beam achieves joining of the electrode and the precious-metal section by heat-conduction welding.

14. A spark plug, comprising:

an electrode; and

a precious-metal section joined to the electrode and having improved corrosion resistance, the precious-metal section containing an alloy that includes at least one precious metal and a material of the electrode, wherein the proportion of the material of the electrode varies in the precious-metal section.

15. The spark plug as recited in claim 14, wherein the precious-metal section has an edge region and a center region, and wherein the edge region contains a higher proportion of the material of the electrode than the center region.